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state of the art as seen in Figure 4 (the three-phase linear motors are marked in their aggregate).--

IN THE CLAIMS:

Amend claim 2 as follows:

2. (amended) Linear motor according to Claim 1, wherein said motor is of the multi-phase type and is designed in such a way that each phase coil acts on a different magnetic trace that is not the same as those of the other phase coils.

Amend claim 3 as follows:

3. (amended) Linear motor according to Claim 1, wherein each of said phase coils do not interact with all the magnets.

Add the following new claim:

4. (new) Multi-phase linear motor that comprises a number of magnets arranged side by side with multiple phase coils in which alternating currents that are offset by a predetermined value are made to flow, whereby the interaction between said magnets and said phase coils causes a relative linear displacement of magnets with respect to phase coils, characterized by the fact that said phase coils only lie on an axis that is perpendicular to the direction of motion.